

SOV/78-4-5-41/46

5(4)

AUTHORS:

Deych, A. Ya., Nasonov, V. S.

TITLE:

Physico-chemical Analysis of the System $\text{CoCl}_2\text{-CO(NH}_2)_2\text{-H}_2\text{O}$
(Fiziko-khimicheskiy analiz sistemy $\text{CoCl}_2\text{-CO(NH}_2)_2\text{-H}_2\text{O}$)

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 5,
pp 1198-1201 (USSR)

ABSTRACT:

In the system $\text{CoCl}_2\text{-CO(NH}_2)_2\text{-H}_2\text{O}$ the optical density, surface tension, viscosity, and density were investigated. The initial solutions of CoCl_2 and $\text{CO(NH}_2)_2$ were produced from chemically pure preparations with concentrations of 1.5 g-mol. Table 1 shows the results obtained by investigating optical density, surface tension, viscosity, and density. Figure 1 shows the optical density of the system $\text{CoCl}_2\text{-CO(NH}_2)_2\text{-H}_2\text{O}$, which was determined by means of a green filter. Figure 2 shows the density (1), the deviation of density from additivity (2), viscosity (3), the deviation of the logarithm of viscosity from additivity (4), and the surface tension (5) of the system $\text{CoCl}_2\text{-CO(NH}_2)_2\text{-H}_2\text{O}$. The microphotograph of the crystals, the initial solution, and the mixture with the

Card 1/2

SOV/78-4-5-41/46

Physico-chemical Analysis of the System $\text{CoCl}_2\text{-CO}(\text{NH}_2)_2\text{-H}_2\text{O}$

molar ratio of components 1:1 were investigated. From the deviation from the additivity of density and the logarithm of viscosity it follows that the compound $\text{CoCl}_2\text{.CO}(\text{NH}_2)_2$ forms in this system. The microphotograph of the crystals confirms the existence of this compound. There are 3 figures, 1 table, and 7 Soviet references.

SUBMITTED: February 20, 1958

Card 2/2

L 13603-63

ENA(k)/EMP(i)/EMF(1)/EDS/3W2/EEC(b)-2/ES(t)-2

APPC/ASD/ESD- /RADG/APGC/ATWL

PI-1/PI-4

JHB/MG/LJP(C)/K/MI

8/01A1/63/006/003/0518/0528

ACCESSION NO: AP5064838

AUTHOR: EMERY, Y. S.

78
76

TITLE: Investigation of optical pumping effectiveness in sodium vapors.
No. 14576

Source: IEEE, Transactions, v. 6, no. 3, 1958, 318-320

TOPIC WORDS: optical pumping, paramagnetic resonance, sodium vapor, electrodeless pumping lamp, dimethyldichlorosilane, diethyldichlorosilane, sodium-vapor cell, level transition, level population

ABSTRACT: The effectiveness of optical pumping in sodium vapors is examined with a view toward increasing the precision of magnetometers and frequency stabilizers based on the paramagnetic resonance method. Because the probability of Kramers absorption of hyperfine components ($^2S_{1/2}, F=2$) - ($^2P_{1/2}, ^2P_{3/2}$) is greater than that of ($^2S_{1/2}, F=1$) - ($^2P_{1/2}, ^2P_{3/2}$) components, the necessary filtration takes place directly in a sodium vapor cell in which the paramagnetic resonance can be observed. The author had previously observed this filtration and made quantitative evaluations pertaining to the transitions between hyperfine

Card 1/3

L 13603-63

ACCESSION NR: AP3004838

2

levels (Izv. vysh. uch. zav. - Radiofizika, 6, 529 (1963); Avt. svidet. No. 145366). The sodium vapor cells were molybdenum glass cylinders; the walls played an active part in the process of atomic disorientation by atom-wall collisions. Measurements were made of paramagnetic resonance magnitudes versus light pumping and microwave field intensities and of the Zeeman level transitions in a $^2S_{1/2}$ state. It was found that 1) spectral lamps without electrodes exhibit the most efficient optical pumping; 2) excess population of the $F = 2$ sublevel is 3.5% over that of the $F = 1$ sublevel when the electrodeless lamps are used; 3) treatment of the internal walls of the cells with dimethyldichlorosilane and diethyldichlorosilane is effective in decreasing the disorientation; and 4) the minimum line width of the $(F = 2, M_F = 0) \rightarrow (F = 1, M_F = 0)$ transition which is used in frequency standards was found to be 300 cps. "In conclusion, the author expresses his thanks to A. I. Borovitskiy and N. T. Grekhova for their interest and help during the progress of this investigation." Orig. art. has: 14 figures and 1 table.

ACQUISITION: none

SEARCHED: 10/10/63

INDEXED: 11/10/63

FILE: 00

SERIALIZED: 11

NO REF SOV: 004

OTHER: 013

Card 2/2

L 15616-63 EWT(1)/EWT(n)-2/EWP(q)/EWT(a)/EWS/ERC(b)-2 AFPTC/ASD/SSD

PL-1 (G/AW/JD)

ACCESSION NR: AP3004839

S/0141/63/006/003/0529/0535

68
66

AUTHOR: Masenov, V. S.

TITLE: Effect of optical pumping on the distribution of Na-atom population over ground-state sublevels

SOURCE: IVUZ. Radiofizika, v. 6, no. 3, 1963, 529-535

TOPIC TAGS: optical pumping, Na, Na-atom population, sodium

ABSTRACT: Further perfecting of devices whose performance is based on the optical pumping (e.g., atomic frequency standard) requires clarifying the pumping optimum conditions that would ensure maximum signal-to-noise ratio. The article presents some results of Na-atom distribution with an allowance for relaxation processes, spectral composition and polarization of the pumping light, and also the light filtration in Na² vapor. Calculations are made for circular, linear, and elliptical polarizations of the light with the following assumptions:

Cont. 1/3

1-1984-45

ACCESSION NR: AP3004899

2

(1) probability of atom transition from the excited state to any sublevel of the ground state is the same; (2) no multiple absorption of reradiated quanta of light; no diffusion of atoms within the volume in question; (3) excited-state atom lifetime is negligible; (4) a relaxation process tends to equalize sublevel populations in the ground state; (5) pumping light includes D_1 and D_2 lines; (6) width of radiating optical lines does not exceed that of the absorption line; (7) the absorption line has a resolved hyperfine structure. In conclusion, the author wishes to express his appreciation to the State Science and Technology Commission for its support and to the staff of the Institute of Spectroscopy, USSR Academy of Sciences, for their assistance.

DATE ACQ: 11-19-83

EXCL: 00

NO REF COPY: 002

OTHER: 020

NASONOV, Vladimir Stepanovich, kand. ekon. nauk; SHERMAN, R.,
red.; NAGIBI, P., tekhn. red.

[A mechanized center for each state farm] Mekhanizirovan-
nyi sernopunkt - kazhdomu sovkhosu. Alma-Ata, Kassel'khoz-
giz, 1963. 62 p. (MIRA 17:1)

NASONOVA, V. YA.

NASONOVA, V. YA. --"Mobile Pumping Units for Irrigation in Conjunction with
Dismountable Pipe Lines and Water Tanks for TsChO Rayons."
*(Dissertations For Degrees In Science and Engineering
Defended at USSR Higher Educational Institutions)(29)
All-Union Sci Res Inst of Hydraulic Engineering and Land
Reclamation, Moscow, 1955

SO: Knishnaya Letopis' No 29, 16 July 1955

* For the Degree of Candidate in Technical Sciences.

KOP'YEV, S.F., doktor tekhn. nauk; LIVCHAK, I.F., doktor tekhn. nauk;
NASONOV, Ye.A., inzh.

Using the heat of thermal waters for heating. Vod. i san. tekhn.
no.6:1-6 Ja '64 (MIRA 18:1)

NASONOV, Ye. A., inzh.

Radiation regime in the space of large-panel buildings with
various heating devices. Vod. i san. tekhn. no. 11:25-29 N 64.
(MIRA 18:2)

NASONOV, YE. N.

AID P - 3956

Subject : USSR/Mining
Card 1/1 Pub. 78 - 1/27
Author : Nasonov, Ye. N.
Title : For a comprehensive planning of oil-refining installations
Periodical : Neft. khoz., v. 33, #12, 1-3, D 1955
Abstract : The author urges the Ministry of the Petroleum Industry to adopt more comprehensive methods in planning oil-refining installations.
Institution : None
Submitted : No date

NASONOV, Ye.M., inzhener.

Modeling in designing machine-building plants in Czechoslovakia.
Vest.mash.36 no.7:85-86 J1 '56. (MIRA 9:9)
(Czechoslovakia--Mill and factory buildings--Models)

MASONOV, Ye.N.

Burning masut-coal mixtures in boilers and industrial furnaces.
Emerg. biul. no.4:22-23 Ap '57. (MLRA 10:5)
(Boilers) (Furnaces)

(14(0)

SOV/92-58-12-11/24

AUTHOR: Masonov, Ye.N., Member of the Rostov Branch of the State Institute for the Design and Planning of Oil Refineries

TITLE: Processing Units Should be Designed With Consideration of Conditions Under Which They Are Overhauled (Proyektirovat' tekhnologicheskiye ustanovki s uchetom usloviy ikh remonta)

PERIODICAL: Neftyanik, 1958, Nr 12, pp 14-15 (USSR)

ABSTRACT: Referring to E.B. Khesin's article, published in the Neftyanik, Nr 5, 1958, under the title "Designs of Processing Units Should be Based on Operating Experience" the author states that he agrees with views expressed in the above article, and points out that the majority of designing and planning organizations overlook in their planned projects the conditions under which refinery processing units have to be overhauled. Certain projects for these units, which are still considered as acceptable, do not meet present requirements. They do not provide, for instance, for mobile hoists capable of lifting a load exceeding 50 kg. Taking into account the conditions under which processing units are run and overhauled, the author comes to the conclusion that planned projects for

Card 1/2

Processing Units Should be Designed (Cont.)

SOV/92-58-12-11/24

such petroleum processing equipment as pipe stills, fractionating towers, immersed condensers and coolers, heat exchangers, compressors, vacuum filters, and reactors must be provided with various auxiliary installations, (monorails, telpher lines, traveling hoists) which will facilitate their overhauling. Various apparatus, furnaces, and pumping units must be provided with compressed air systems which will permit the use of pneumatic tools needed for their maintenance. Some planned projects fail to leave a passage or a free area around the processing unit, which is necessary for handling and moving tools used for equipment maintenance. It is understood that pipe stills, which process sulfurous crude, must have tube coils built of alloy steel. Carbon deposits accumulated in furnace tubes must be burned out or removed by flushing with steam. Those sections of pipelines which are particularly exposed to corrosion should be built of alloy steel pipes. Some projects fail to take into account the present industrial methods of assembling equipment from prefabricated segments. A prerequisite for proper designing and planning is a careful study of the conditions under which the projected equipment is to be operated and overhauled.

ASSOCIATION: Rostovskiy filial Giproneftezavoda (The Rostov Branch of the State Institute for the Design and Planning of Oil Refineries)

2/2

SOV/122-58-5-23/26

AUTHOR: Nasonov, Ye.N., Engineer

TITLE: ~~The Use of Scale Models in Planning Machine-building Plants~~
Plants (Maketirovaniye pri proyektirovanii mashino-
stroitel'nykh zavodov.)

PERIODICAL: vestnik Mashinostroyeniya, 1958, Nr 5,
pp 81 - 82 (USSR)

ABSTRACT: Brief description of the use of 1/50 scale models by
the Czechoslovakian State Institute for Design and Planning of
~~Machine-building Plants.~~
There are 2 photographs.

Card 1/1 1. Industrial plants--Design 2. Models--Applications

HASQOV, Ye.N.

For cooperation between the State Institute for the Design and Planning of the Azerbaijan Petroleum Industry, State Institute for the Design and Planning of the Grosny Petroleum Industry, and State Institute for the Design and Planning of Oil Refineries. Azerb.neft.khos. 38 no.1:39 Ja '59. (MIRA 12:4)

(Petroleum industry)

NASONOV, Ye.N.

Selecting a flow sheet for petroleum rectification in primary
distillation units. Azerb.neft.khoz. 38 no.11:42 N '59.
(MIRA 13:5)

(Petroleum—Refining)

838h1

S/138/60/000/004/007/008
A051/A029

1153

15.9120

2209

11.22 '3

2109

AUTHORS:

Beregovskaya, M.G., Masonova, A.N., Mulyukova, S.G

TITLE:

The Effect of Dispersion of Manganese Dioxide on the Rate of Vulcanization and the Physico-Mechanical Properties of Liquid Thiocol Vulcanizates

PERIODICAL:

Kauchuk i Rezina, 1960, No. 4, pp. 37 - 39

TEXT:

The investigation results are outlined of the effect of dispersion of manganese dioxide on the vulcanization rate and the physico-mechanical properties of liquid thiocol vulcanizates. The experimental procedure is described and as a result of the data obtained in the experiments the following conclusions are drawn: 1) The manganese dioxide dispersion has a considerable effect on the vulcanization rate and on the physico-mechanical properties of liquid thiocol vulcanizates. With a decrease in the degree of dispersion the disappearance time of adhesiveness increases and the stability of the vulcanizates drops. An increase in the dispersion of the manganese dioxide brings about a decrease in the disappearance time of the adhesiveness and the vulcanizates become more stable. 2) The dispersion of the fractions

Card 1/2

83841

S/138/60/000/004/007/008
A051/A029

The Effect of Dispersion of Manganese Dioxide on the Rate of Vulcanization and the Physico-Mechanical Properties of Liquid Thiocol Vulcanizates

separated by passing them through the same screen varies and depends on the fractional composition of the initial manganese dioxide. The greater the residue on the screen 60 manganese dioxide, the less dispersed are the separated fractions. 3) Passing manganese dioxide through the screen 60 does not ensure the obtaining of a homogeneous and sufficiently finely-dispersed preparation and yields low physico-mechanical indices of the vulcanizates from the liquid thiocol. 4) The inconsistency of the manganese dioxide content in the pastes within the range determined by its varying content in the initial manganese dioxide has no effect on the physico-mechanical indices of the liquid thiocol. The pastes with a higher content of manganese dioxide but crudely dispersed, give the worst results as to the disappearance time of adhesiveness and the extent of the tear-resistance of the vulcanizates. 5) As a result of the obtained data it is recommended that certain demands be placed on the dispersion of the manganese dioxide and that the dispersion be evaluated by the hydrogen peroxide method. There are 3 tables.

Card 2/2

ALEYNIK, M.D.; TARANYUK, Z.Ye.; NASONOVA, A.S.; NIKOLAYEVSKAYA, G.V.;
ZOTOVA, A.G.

Study of the effectiveness of prophylaxis of Botkin's disease
using gamma globulin in childrens' institutions in Gorkiy and
Dzerzhinsk. Vop.virus.7 no.5:617-618 S-0 '62. (MIRA 15:11)

1. Gor'kovskiy institut epidemiologii i mikrobiologii, Gor'kovskaya
oblastnaya sanitarno-epidemiologicheskaya stantsiya i Sanitarno-
epidemiologicheskaya stantsiya avtosavodskogo rayona, Gor'kiy.

(GAMMA GLOBULIN)

(GORKIY—HEPATITIS, INFECTIOUS)

(DZERZHINSK (GORKIY PROVINCE)—HEPATITIS, INFECTIOUS)

KOMOVA, Z.A.; NASONOVA, A.S.; BASHKIROVA, Ye.T.

Use of polymyxin in the treatment of dysentery in adults.
Antibiotiki 9 no.9:855-856 S '64. (MIRA 19:1)

1. Klinicheskoye otdeleniye Gor'kovskogo instituta epidemiologii
i mikrobiologii i infeksionnyye bol'nitsy No.2 i No.23 goroda
Gor'kogo.

STEPANOV, V.N., doktor sel'skokhozyaystvennykh nauk, prof.; NASONOVA, K. Ye.,
nauchnyy sotrudnik; KURELENOK, V.I., nauchnyy sotrudnik

Productivity of crop rotations specialising in grain and potatoes
in central regions of the non-Chernozem zone. *Izv. VASKhA*
no.3: 49-64 '60. (MIRA 14:4)
(Rotation of crops)

NASONOVA, L.I.

Biology of the carpenter moth *Cossu cossus* L. Trudy VIZR no.15:215-224
'60. (MIRA 14:3)

(Voronezh Province—Carpenter moths)
(Trees—Disease and pests)

NASONOVA, M. V.

Vertical growth and development in unicellular green algae. G. V. Gerasimov and M. V. Nasonova. *Ann. Bot. Acad. Sci. U.S.S.R.* Moscow, 1966, 34, 255-2 (1966).—Green algae in lab. cultures show clear periodicity in growth patterns. In fall and winter the rate can be greatly accelerated by irradiation from fluorescent lamps, white-light type, but periodically persists even in constant temp., irradiation, and nutrient content. It is also characteristic of other algae, including diatoms (e.g. *Gracilaria* and *Monostroma*).
Julian F. Smith

①

NASONOVA, M.V.

MD
Amount and character of photo synthesis from Lake Balne
Ozero in different seasons. E. F. Goryunova and M. V.
Nasonova (Inst. Microbiol., Acad. Sci., Moscow). *Trudy
Sovetskoye Akad. Nauk* 42: 425-43 (1954). Sudden spring "blooming"
of phytoplankton is not a reliable indication of activity; a
variety of conditions may mask the visible effects. Colony
development, from spores, may cover periods of 1-2 days to
2 months. The proportion of dead cells (chiefly of *Microcystis
aeruginosa*) sometimes reaches 85% in summer. The
Lake Balne Ozero was chosen because its relative richness in
all any respects supports a high rate of microbial activity
while its hydrological and hydrochem. properties are excep-
tionally favorable. Julian F. Smith

Country : USSR
Category : Plant Diseases. Diseases of Forest Species. 0
Abs. Jour.: Ref. Zhur.-Biologiya No. 11, 1958. No. 49231
Author : Nasonova, M.V.
Institute : NOT given
Title : Dutch Elm Disease Control by Rejuvenation of the
Stands
Orig. Pub.: Lesn. kh-vo, 1957, No. 12, 50-51
Abstract : No abstract

Card: 1/1

7

NASR, M.A., Ph.D. -- "The characteristics of the filter..."
characteristics of the filter... of the...
Voronov, 1988, 1-1 (1988) ...
Engineering (1988) ...

GORYUNOVA, S.V., NASHKOVA, M.Y.

Effect of fluorescent lamps with various luminophores on the growth and development of the green alga *Scenedesmus quadricauda* [with summary in English]. *Mikrobiologiya* 27 no.5:581-587 2-0 '58
(MIRA 11:12)

1. Institut mikrobiologii AN SSSR.

(ALGAE,

Scenedesmus quadricauda, eff. of luminescent lamps with various luminophores (Rus))

(LUMINESCENCE,

eff. of luminescent lamps with various luminophores on *Scenedesmus quadricauda* (Rus))

NATSVLISHVILI, A.A., kand.sel'skokhoz.nauk; SINYUKOV, V.P.; NASONOVA, M.V.,
kand.sel'skokhoz.nauk; PALIY, V.F., prof.; KOTLYAR, V.V., mladshiy
nauchnyy sotrudnik; LUPENKO, L.G.; DZIDZARIYA, O.M., nauchnyy
sotrudnik

Brief information. Zashch. rast. ot vred. i bol. 8 no.8:55-57
Ag '63. (MIRA 16:10)

1. Gruzinskiy institut zashchity rasteniy, Tbilisi (for Natsvlishvili).
2. Oblastnaya laboratoriya biometoda, Brailov, Vinnitskoy obl.
(for Sinyukov).
3. Achikulakskaya lesnaya opytnaya stantsiya,
Maykop (for Nasonova).
4. Sary-Chelekskiy zapovednik (for
Paliy, Kotlyar).
5. Batayskiy opornyy punkt Vsesoyuznogo instituta
zashchity rasteniy (for Lupenko).
6. Sukhumsкая opytnaya
stantsiya efiromaslichnykh kul'tur (for Dzidsariya).

NASONOVA, O.M.

Forage characteristics of the vegetation of Balkhash District, Alma-
Ata Province. Trudy Inst. bot. AN Kazakh. SSR 11:3-26 '61.
(MIRA 15:3)

(Balkhash District--Forage plants)

BOK, I.I.; BARBOT de MARNI, A.V.; VISLOGUZOVA, A.V.; GALIYEV, M.S.;
 LI, A.B.; LOMONOVICH, M.I.; YAKOVENKO, Z.V.; ASSING, I.I.;
 NURMANGALIYEV, A.B.; SOKOLOV, S.I.; GRIGOR'YEVA, Ye.P.;
 SEROV, N.P.; LEONOV, G.M.; ZAKHAROV, B.S.; ZAGAYNOV, V.I.;
 BOROVSKIY, V.M.; LITVINOVA, A.A.; POGREBINSKIY, M.A.;
 NASONOVA, O.M.; KHAYDAROV, R.M.; SUVOROVA, R.I., red.;
 AGREBOVA, F.F., tekhn. red.

[Ili Valley, its nature and resources] Iliiskaia dolina, ee priroda i resursy. Pod obshchey red. M.I. Lomonovicha. Alma-Ata, Izd-vo AN Kaz.SSR, 1963. 338 p. (MIRA 16:8)

1. Akademiya nauk Kazakhskoy SSR. Alma-Ata. Institut geologicheskikh nauk. 2. Nauchnyye sotrudniki Instituta geologicheskikh nauk AN KazSSR (for Bok, Barbot de Marni, Visloguzova, Galiyev, Li, Lomonovich, Yakovenko). 3. Institut pochvovedeniya AN KazSSR (for Assing, Nurmangaliyev, Sokolov, Borovskiy, Litvinova, Pogrebinskiy). 4. Institut botaniki AN KazSSR (for Grigor'yeva, Nasonova). 5. Institut zoologii AN KazSSR (for Serov). 6. Kazakhskiy politekhnicheskiy institut (for Leonov). 7. Ministerstvo sel'skogo khozyaystva KazSSR (for Zakharov). 8. Kazanskiy filial Instituta "Gidroyekt" im. S.Ya.Zhuka (for Khaydarov).

(Ili Valley--Physical geography)

GENKIN, A.N.; NASONOVA, T.P.; PODDUBNYI, I.Ya.; SHLYAKHTER, R.A.

Molecular weight distribution of low molecular weight thiocols
by the chromatographic fractionation method. *Vysokom.soed.*
4 no.7:1088-1092 JI '62. (MIRA 15:7)

1. Nauchno-issledovatel'skiy institut sinteticheskogo
kauchuka.
(Guaiacolsulfonic acid) (Chromatographic analysis)

S/020/63/149/002/022/028
B117/B186

AUTHORS: Shlyakhter, N. A., Apakhtina, N. F., Maslova, T. P.

TITLE: Thiol-disulfide exchange in polysulfide polymers

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 149, no. 2, 1963, 345-347

TEXT: The thiol-disulfide exchange during the mixing of polymers with different molecular weights, was studied by determining the molecular weight distribution (MWD) of polysulfides with mercaptane end groups $\text{HS} - \text{R} - \text{S} - \text{S} - \text{R} - \text{SH}$. MWD was determined by a method previously devised (A. N. Gankin, T. P. Maslova, et. al., Vysokomolek. soved., 4, no. 7, 1088 (1962)). Polysulfides with molecular weights of 600 - 3000 were synthesized, and their MWD determined. They were then mixed at room temperature for 1 hr. and the MWD of the mixture was determined. The following was found: The number of fractions with mean molecular weights (1000-2000) increases during the thiol-disulfide exchange. The number of fractions with the lowest (<1000) molecular weights decreases rapidly and that with high ones (>3000) decreases considerably. Apart from this, chemical reactions take place during mixing and form polymers with a

Card 1/2

Thiol-disulfide exchange in ...

S/O20/63/149/002/022/028
B117/B166

narrow MWD. In polymers of the same viscosity, obtained by mixing samples of different viscosities and different molecular weights, and in pure polymers, the fractions were found to show a practically equal composition. The thiol-disulfide exchange which takes place both during the synthesis of thiols and during their mixing thus gives rise to a narrow MWD of these polymers. These results are in contradiction with the statement by E. E. Bertozzi, F. O. Davis, E. M. Fettes (J. Polym. Sci., 17 (1956)), saying that the thiol-disulfide exchange causes a wide MWD in liquid polymers. There are 1 figure and 2 tables.

ASSOCIATION: Nauchno-issledovatel'skiy institut sinteticheskogo kauchuka
(N. S. V. Lebedeva
(Scientific Research Institute of Synthetic Rubber named
S. V. Lebedev)

PRESENTED: November 29, 1962, by E. A. Arbuzov, Academician

SUBMITTED: November 19, 1962

PAGE 1/2

N 45 ONOV 4, K.A.

NASONOVA, V. A., TARSEV, E. M.

Antihistamine therapy of capillarotoxicosis. Sovet. Med. No. 11,
Nov. 50. p. 18-9

1. Of the Faculty Therapeutic Clinic (Head--Prof. Ye. M. Tareyev),
Moscow Medical Institute of the Ministry of Public Health RSFSR
and of the First Therapeutic Clinic, Moscow Oblast Scientific-
Research Clinical Institute.

CELML 20, 3, March 1951

Capillarotoxicosis - Hemorrhagic Capillarotoxicosis

"Pathology and Clinical Aspects of Hemorrhagic Capillarotoxicosis," V. A. Maslova, 1st Therapeutic Clinic, MUMIKI (Moscow Sci Res Clinic), Insti Izmni M. F. Vladimirovskiy.

"Sov Med" Vol IV, No 9, pp 18-22

This disease is seldom diagnosed correctly (8 times out of 40). Its division into various forms (intestinal, joint, kidney, etc.) is unjustified. The course is always that of a

1950

Capillarotoxicosis (Contd)

serious dystrophy: Neurovascular reaction of the organism to various irritations, most frequently of an infectious nature, more seldom of a nonspecific type such as cold, traumatic injury, psychic (emotional) conditions, etc., is involved. Chronic affliction of the kidneys is the most dangerous complication.

1950

PA 128718

MASLOVA, V. A.

1957, p. 1.

"Clinical features of typhoid fever in the USSR." (First Moscow Congress of Microbiology, 1957. Distribution (see: Moscow, 17 res. 5.)

: 1957, p. 115.

MASONOVA, B.A.

Massive hemorrhagic telangiectases. *Scv. med.* 18 no.11:29-32 # '54.
(WIRA 7:12)

1. Iz prepovedticheskoj i gospiatal'noj terapevticheskoj kliniki
(dir.-deystv. chlen ANU SSSR prof. B.M.Fareyev) sanitarno gigiye-
nicheskogo fakul'teta I Moskovskogo ordena Lenina med. instituta.

(TELANGIECTASIS

massive, hemorrhagic)

(HEMORRHAGIC DIATHESIS

telangiectasis, massive)

MASONOVA, V.A.

Unusual affection of the lungs in acute diffuse vasculitis. Sov.
med. 20 no.2:62-66 F '56. (MLRA 9:7)

1. Is kliniki obshchey i gospital'noy terapii (sav.-deystvitel'nyy
chlen Akademii meditsinskikh nauk SSSR prof. Ye.M.Taroyev) sanitarno-
gigiyenicheskogo fakul'teta I Moskovskogo ordena Lenina meditsin-
skogo instituta imeni I.N.Sechenova.

(VASCULAR DISEASES, PERIPHERAL, compl.

lung dis.)

(LUNGS, dis.

caused by peripheral vasc. dis.)

MAISONOVA, V.A.; ADYRKHAYEV, A.Kh.

Disseminated vasculitis in the treatment of hypertension with
apresoline. Sov. med. 20 no.3:41-45 Mr. '56 (MLRA 9:6)

1. Is kafedry obshchey i gospital'noy terapii (sav.-deystvitel'nyy
chlen Akademii meditsinskikh nauk SSSR prof. Ye.M. Tareyev)
sanitarno-gigiyenicheskogo fakul'teta I Moskovskogo ordena Lenina
meditsinskogo instituta imeni I.M. Sechenova.

(HYPERTENSION, therapy.

hydrazine phthalazine apresoline causing diffuse
vasculitis (Rus))

(VASCULAR DISEASES, PERIPHERAL, etiology and pathogenesis,
vasculitis caused by hydrazine phthalazine apresoline
in ther. of hypertension (Rus))

(SYMPATHOLYTICS, injurious effects,
hydrazine phthalazine apresoline causing vasculitis in
ther. of hypertension (Rus))

Am... V.H.
BONDAR', Z.A. (Moskva); KONCHALOVSKAYA, N.M. (Moskva); MASONOVA, V.A.
(Moskva)

Treatment of Botkin's disease. Klin. med. 35 no.1:69-75 Ja '57
(MIRA 10:4)

1. Iz obshchey i gospiatal'noy terapevticheskoy kliniki (zav.-
deystvitel'nyy chlen ANM SSSR prof. Ye. M. Taroyev) sanitarno-
gigiyenicheskogo fakul'teta i Moskovskogo ordena Lenina
meditsinskogo instituta.

(INFECTIOUS DISEASE, ther.

lipocaic, cottage cheese with conventional ther.)

(LIPOCAIC, ther. use

infect. hepatitis)

Маслоуев, В.И.
TAREYEV, Ye.M., prof.; NASONOVA, V.A. (Moskva)

Lung affections in systemic vasculitis. Sov.med. 21 no.8:3-12 Ag.'57.
(MIRA 10:12)

1. *Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR* (for Tareyev)
(LUNG DISEASES, etiol. & pethol.
vasculitis, systemic., clin.manifest. & ther. (Rus))
(CARDIOVASCULAR DISEASES, complications
vasculitis, systemic, causing lung dis. (Rus))

EXCERPTA MEDICA Sec 6/Vol 13/6 Internal Medicine June 59

2855. PULMONARY INVOLVEMENT IN SYSTEMIC VASCULITIS (Russian text) -
Tareev E. M. and Nasonova V. A. Moscow - SOV. MED. 1957, 8
(3-12)

Sixty-one cases of non-specific pulmonary lesions were observed. Forty-four patients had systemic lupus erythematosus, 5 periarteritis nodosa, 5 rheumatoid arthritis and 7 so-called isolated pulmonary vasculitis. The basis of the pulmonary lesions, as in the case of other organs, is hyperergic vasculitis of various sorts with perivascular infiltration; there are signs of interstitial pneumonia and various sequelae up to breakdown of pulmonary tissue ('vascular cavitations'), as well as signs of pleurisy etc. The most characteristic clinical manifestations of vascular pneumonias are: persistent pertussis-like cough; extraordinarily marked dyspnoea; haemoptysis up to massive pulmonary haemorrhages; fever with periodic spiking of temperature; paucity of physical signs with rapidly changing radiological picture which at times simulates military tb and tuberculous cavitation. Pleural involvement is accompanied by localized pain, transient friction rub, accumulation of scanty (often interlobar) effusion, and a marked adhesive process. Multiple involvement of the viscera occurring in patients with systemic vasculitis is an important point in the diagnosis of vascular pneumonias. The diagnosis of vascular pneumonias which occur as an isolated manifestation of systemic vasculitis is more difficult. Correct diagnosis is facilitated by the course unusual for bacterial pneumonias, being frequently progressive despite antibiotic treatment, as well as the paucity of auscultative findings with very severe symptoms and marked radiological changes; the beneficial action of hormone therapy and, to a lesser extent, of procaine and phenylbutazone are also of diagnostic value. It is stressed that persistence with anti-infection therapy when it is ineffective is impermissible, especially in the light of frequent incidence of drug intolerance in such patients.

Huseva - Moscow (S)

TAREYEV, Ye.M., prof.; MAKHONVA, V.A. (Moskva)

The so-called periodic disease. Sov.med. 23 no.11:3-14 F '59. (MIRA 13:3)

1. Deystvitel'nyy khlen AMN SSSR (for Tareyev).
(PERIODIC DISEASE)

MASONOVA, Valentina Aleksandrovna

[Hemorrhagic vasculitis (Schönlein-Henoch disease)] Gemorragi-
cheskii vaskulit (bolesn' Shenleina-Genokha). Moskva, Medgiz,
1959. 173 p. (MIRA 13:8)

(PURPURA (PATHOLOGY))

NASONOVA, V. A. and TAREYEV, Ye. M.

"The Place of Steroid Hormones in the Comprehensive Treatment of
Patients with Collagen Diseases"

report submitted to the All-Russian Conference of Internists, Leningrad,
USSR 26-29 June 1960

So: Terapevticheskiy Arkhiv (Therapeutic Archives), Vol. XXXII, No. 11
Moscow, Nov. 1960, pages 93-95

TAREYEV, Ye.M., prof.; NASONOVA, V.A., kand.med.nauk

Place of steroid hormones in the combined therapy of so-called
extensive collagen diseases. Sov.med. 24 no.12:3-12 D '60.

(MIRA 14:3)

1. Is Instituta revmatizma (dir. - deystvitel'nyy chlen AMN SSSR
prof. A.I.Nesterov) Ministerstva zdravookhraneniya RSFSR.
2. Deystvitel'nyy chlen AMN SSSR (for Tarayev).
(COLLAGEN DISEASES) (STEROIDS)

TAREYEV, Ye.M.; NASONOVA, V.A.

Non-specific pneumonia in the therapeutic clinic. Vest. AMN SSSR
15 no.9:24-31 '60. (MIRA 13:11)

1. Institut revmatizma Ministerstva zdorovokhraneniya RSFSR.
2. Deyatvitel'nyy chlen AMN SSSR (For Tareyev).
(PNEUMONIA)

NASONOVA, V.A.; POTEKAYEVA, M.A.

Hemorrhagic vasculitis in mercusal intolerance. Sov. med. 25 no.11:
29-35 N '61. (MIRA 15:5)

1. Iz kafedry propedeuticheskoy i gospital'noy terapii (zav. -
deystvitel'nyy chlen AMN SSSR prof. Ye.M.Tareyev) sanitarno-
gigiyenicheskogo fakul'teta I Moskovskogo ordena Lenina meditsinskogo
instituta imeni I.M.Sechenova i 24-y gorodskoy bol'nitsy (glavnyy
vrach V.P.Uspenskiy).

(MERSALYL--TOXICOLOGY) (PURPURA (PATHOLOGY))

NASONOVA, V.A.; SPASSKAYA, P.A.

Lesions of pulmonary vessels in hemorrhagic vasculitis. Terap.
arkh. 33 no.3:37-41 Nr '61. (MIRA 14:3)

1. Is Instituta revmatizma Ministerstva zdravookhraneniya RSFSR
(dir. - deystvital'nyy chlen ANU SSSR prof. A.I. Nesterov).
(PURPURA (PATHOLOGY)) (LUNGS—BLOOD SUPPLY)

ASTAPENKO, M.G., doktor med.nauk; NASONOVA, V.A.

Experience in the use of triamcinolone in the treatment of various collagen diseases. Sov.med. 24 no.12:42-48 D '60. (MIRA 14:3)

1. Is otdeleniya infektsionnykh artritov (sav. - doktor med.nauk M.G.Astapenko) i otdeleniya pograniichnykh form (sav. -deystvitel'nyy chlen AMN SSSR prof. Ye.M.Tarsev) nauchno-issledovatel'skogo instituta revmatizma (dir. - deystvitel'nyy chlen AMN SSSR prof. A.I.Nesterov) Ministerstva zdoravookhraneniya RSFSR.
(COLLAGEN DISEASES) (TRIAMCINOLONE)

HASANOVA, V.A.; GUSEVA, N.G.; POLYANSKAYA, L.G.

External respiration in sclerodermic pneumosclerosis. Terap.
arkh. no.8:86-91 '62. (MIRA 15:12)

1. Is otdeleniya pogranichnykh form (nauchnyy rukovoditel' -
deystvital'nyy chlen AMN SSSR prof. Ye.M. Tareyev) Instituta
revmatizma (dir. - deystvital'nyy chlen AMN SSSR prof. A.I.
Nestorov) AMN SSSR.
(SCLERODERMA) (RESPIRATION) (PULMONARY FIBROSIS)

3

NASONOVA, V.A.; NESGOVOROVA, L.I.

Diagnosis of systemic lupus erythematosus. Sov.med. 25 no.1:16-21
Ja '62. (MIRA 15:4)

1. Is otdeleniya pogranichnykh form (nauchnyy rukovoditel' -
deystvitel'nyy chlen AMN SSSR prof. Ye.M.Tarpyev) Instituta
Rovmatizma (dir. - deystvitel'nyy chlen AMN SSSR prof. A.I.Nesterov).
(LUPUS ERYTHEMATOSUS)

MASONOVA, V.A. (Moskva)

Fifteenth All-Union Congress of Theraputists (from May 31
through June 5, 1962, in Moscow). Sov.med. 26 no.1:145-153 Ja
'63. (MIRA 16:4)

(MEDICINE CONGRESSES)

ASTAPENKO, M.G., prof. ; NASONOVA, V.A., kand. med. nauk

Results of the scientific session of the Scientific Research
Institute of Rheumatic Fever of the Academy of Medical Sciences
of the U.S.S.R. Vop. revm. 3 no.3885-89 JI-5'69 (MIRA 1783)

TARUYEV, Favgariy Mikhaylovich. Prinimani uchastiye: VINOGRADOVA,
M.; BASCHOVA, Y.A.; GUBOVA, N.G.; RABIN, A.S., red.

[Collagenoses; systemic lupus erythematosus, systemic
scleroderma, dermatomyositis, periarteritis nodosa] Kol-
lagenozy; sistemaia krasnaia volchanka, sistemaia sklo-
rodermita, dermatomiozit, uzelkovyi periarterit. Moskva,
Meditsina, 1965. 372 p. (MIRA 18:7)

NASONOVA, V.A.; GUSEVA, N.G.; NESGOVOROVA, L.I.; IVANOVA, M.M.

Basic principles of compound treatment of major collagenoses.

Sov. med. 28 no.5:46-51 My '65.

(MIRA 18:5)

1. Institut revmatizma (dir. - prof. A.I.Nesterov) AMN SSSR, Moskva.

NASONOVSKAYA, Z. S.

27847. Nasonovskaya, Z. S. Traktornyy opryskivatel' --- opylivatel' dlya
lesonacashdeniy. Les i step' 1949, No. 2 s. 60-62.

SO: Letopis' Zhurnal'nykh Statey, Vol. 37, 1949

NASONOVSKAYA, Z.S.

USSR/Biology, Agricultural - Toxic Chemicals Apr 52

"Apparatus for Combined Spraying and Dusting," Ya. Mikhaylov

"Nauka i Zhizn'" No. 4, p 28

F.Ye.Pushchin, Sr Sci Assoc, All-Union Inst of Plant Protection, and V.A.Fedorov and Z.S.Nasonovskaya, Sci Associates, All-Union Inst of Agr Mach Bldg, developed an app mounted on a motor truck which permits either spraying or dusting, or simultaneous spraying and dusting of large areas. Water may be sprayed while a solid poison is dusted, so that adhesion of the powder to plants is improved. The inventors received a Stalin prize in 1951.

PA 221T3

MASONOVSKAYA, Z.S.; KLIMCHUK, Yu.F.; CHAUKINA, R.P.

Capron screens in the filters of sprayers. Zashch. rast. ot vred.
1 bol. 6 no.9:18-19 S '61. (MIRA 16:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sel'skokho-
zyaystvennogo mashinostroyeniya.
(Spraying and dusting equipment) (Nylon)

PROKOPENKO, S.F.; YEFREMOVA, N.I.; NASONOVSKAYA, Z.S.; KUZNETSOVA, Ye.G.;
MYSAK, G.Ya., inzh.; DOBROSINETS, Ye.I., inzh.

Spraying orchards with a small expenditure of liquids. Zashch.
rast. ot vred. i bol. 8 no.2:35 F '63. (MIRA 16:7)

1. Sotrudniki Vsesoyuznogo nauchno-issledovatel'skogo instituta
sel'skokhozyaystvennogo mashinostroyeniya (for Prokopenko,
Yefremova, Nasonovskaya). 2. Glavny, agronom sovkhoza imeni
Lenina Moskovskoy obl. (for Kuznetsova). 3. Gosudarstvennoye
seriyno-konstruktorskoye byuro L'vovskogo soveta narodnogo
khozyaystva (for Mysak, Dobrosinets).
(Spraying and dusting in agriculture)

L 53594-65 EWT(m)/EPF(c)/EWP(j) P-4/Pr-4 RM

ACCESSION NR: AP5011855

UR/0189/65/000/002/0069/0071

AUTHORS: Fedorov, S. G.; Kuskov, V.K. (deceased); Nasonovskiy, I. S.

26
25
8

TITLE: Nitration and nitrosation of novolak resins

SOURCE: Moscow. Universitet. Vestnik. Seriya 2. Khimiya, no. 2, 1965, 69-71

TOPIC TAGS: resin, novolak, nitration, nitrosation, nitronovolak, aminovolak, azo coupling, aniline

ABSTRACT: Nitration and nitrosation of novolak resins were carried out to obtain new types of polymers and high molecular weight aminophenols. Novolak resin was produced either by the method of A. A. Vanshteydt, A. T. Itenberg, T. Yerlykova, and G. Zh. Simonov (plast. massy, No. 3, 17, 1934), or of D. A. Fraser, R. W. Hall, and A. L. Raum (J. J. Appl. Chem., 7, 676, 1957). Nitration was started by adding 7.5 ml of nitric acid to a solution containing 10 g of novolak resin in 200 ml of glacial acetic acid. After an addition of concentrated being the

7.5 ml of nitric acid to a solution containing 10 g of novolak resin in 200 ml of glacial acetic acid. After an addition of concentrated brine, the precipitated novolak was filtered, washed, dried, and reprecipitated from an acetone solution. Its physical properties and chemical composition are presented. To produce

Card 1/2

L 53594-65

ACCESSION NR: AP5011855

aminonovolaks, 10 g of nitronovolak suspension in 100 ml of methanol were reacted with $\text{SnCl}_2 \cdot \text{H}_2\text{O}$ solution in concentrated HCl. After warming, filtering, and partially evaporating, 150 ml of concentrated HCl were added. The obtained aminonovolak chlorohydrate was dissolved in methanol and neutralized with sodium acetate to produce light yellow aminonovolak.

aminonovolak chlorohydrate was dissolved in methanol and neutralized with sodium acetate to produce light yellow aminonovolak. Azo coupling of the diazotized aminonovolak with an R-salt and with naphthol, and also azo coupling of the diazotized aniline and diazotized n-nitroaniline with aminonovolak, are described, and the products of these reactions are listed. The nitrosation was started by adding 6.7 ml of concentrated HCl to a solution of 5 g in 50 ml of methanol. Next, 3.7 g of sodium nitrate dissolved in 10 ml of water were added, producing the desired precipitate. Its nitrogen contents, obtained by various authorities, are given. Orig. art. has: 2 formulas.

ASSOCIATION: Moskovskiy universitet. Kafedra khimicheskoy tekhnologii (Moscow University. Department of Chemical Engineering)

SUBMITTED: 01Jun64

ENCL: 00

SUB CODE: 00, MT

NO REF BOV: 001

OTHER: 001

DAB
Card 2/2

PHASE I BOOK EXPLOITATION

GER/6314

Nasov, N. A., G. I. Zyupko, and V. I. Petlyuk

Navigation auf einsitzigen Flugzeugen. [Berlin] Verlag des Ministeriums für Nationale Verteidigung [1959]. 320 p. No. of copies printed not given. Contributors not mentioned. Translation of "Vozhdeniye odnometnogo samoleta" (Navigation of a Single-Seat Aircraft). Moscow, 1956, 247 p. Translator not mentioned.

PURPOSE: This book is intended for pilots of single-seat aircraft. It may be used by students in aviation schools and by aviation organizations.

COVERAGE: This book describes the theory and practice of airborne navigation for single-seat aircraft. The book pays particular attention to group flights and airborne navigation under various conditions. It gives practical advice to pilots in all branches of aviation.

Card 1/1

HASPER, G.M.

Unpublished letters of Pirogov on the work of the Society of Com-
passionate Widows in the hospitals of Simferopol' during the years of
1854-1855. Vest.Nikif. 77 no.11:32-34 N '56. (MLBA 10:1)
(BIOGRAPHIES
Pirogov, N.I.)

TUMA, Milan, doc., inz., kandidat technickych ved; NASR, M.A., inz., kandidat
technickych ved

A model method for determining the economic load of steam power stations
operating within an electric power system. El tech obsor 51 no.11:571-
577 N '62.

NASRASHVILI, N.S.

Problem of the print of the Georgian primer. Trudy Inst. psikhol. AN
Grus. SSR 11:345-353 '57. (MIRA 12:3)
(Primers, Georgian) (Type--Georgian type)

MASRASHVILI, N.S.

Influence of print on the reading of first and second graders.
Trudy Inst.psikhol.AN Grus.SSR 13:153-175 '62. (MIRA 16:2)
(Reading (Elementary))

MASREDDINOV, Z.

Utilising labor resources on cotton-growing collective farms
of Gissar District. Trudy AN Tadsh.SSR 92:17-20 '58.

(MIRA 13:4)

(Gissar District--Collective farms)

ARZHANYKH, I.S.; MASRETDINOV, S.S.

Stresses on the surface of an isotropic elastic body. *Izv. AN Uz. SSR. Ser. tekhnauk no.6:27-35 '60.* (MIRA 14:1)

1. Institut mekhaniki AN UzSSR. 2. Chlen-korrespondent AN UzSSR (for Arshanykh).

(Elastic plates and shells)

27105

8/167/61/000/002/002/003
D224/D301

AUTHOR: Nasretdinov, S.S.

TITLE: On the theory of envelopes

PERIODICAL: Akademiya nauk UzSSR. Seriya tekhnicheskikh nauk.
Izvestiya, no. 2, 1961, 55 - 61

TEXT: The author wishes to prove formulae for deformations $e_{\alpha\alpha}$, $e_{\beta\beta}$, $e_{\alpha\beta}$ in the form of expansion in series of z and formulae for tangential displacements of any point of the envelope and to disprove the hypothesis of the conservation of their normal element. As regards the components of the deformation tensor in orthogonal curvilinear coordinates, $\frac{1}{A} \vec{r}_\alpha$, $\frac{1}{B} \vec{r}_\beta$, \vec{n} are given by formula

$$e_{\alpha\alpha} = \frac{1}{H_1} \frac{\partial u_\alpha}{\partial z} + \frac{1}{H_1 H_2} \frac{\partial H_1}{\partial z} u_\beta - \frac{1}{H_1} \frac{\partial H_1}{\partial z} u_\beta \quad (1)$$

Card 1/7

27105

S/167/61/000/002/002/003
D224/D301

On the theory of envelopes

$$e_{33} = \frac{1}{H_3} \frac{\partial u_3}{\partial z} + \frac{1}{H_1 H_2} \frac{\partial H_2}{\partial x} u_3 - \frac{1}{H_2} \frac{\partial H_1}{\partial z} u_3$$

$$e_{22} = - \frac{\partial u_2}{\partial z}$$

$$e_{13} = \frac{H_1}{H_2} \frac{\partial}{\partial z} \left(\frac{u_1}{H_2} \right) + \frac{H_2}{H_1} \frac{\partial}{\partial z} \left(\frac{u_3}{H_1} \right)$$

$$e_{12} = H_1 \frac{\partial}{\partial z} \left(\frac{u_1}{H_2} \right) - \frac{1}{H_2} \frac{\partial}{\partial z} u_3$$

$$e_{23} = H_2 \frac{\partial}{\partial z} \left(\frac{u_2}{H_1} \right) - \frac{1}{H_1} \frac{\partial}{\partial z} u_3$$

(1)

where A, B are coefficients of the first quadratic form of the mean surface with respect to its main curvatures; k_1, k_2 the main

Card 2/7

27105

S/167/61/000/002/002/003
D224/D301

On the theory of envelopes

radii of curvature of the mean surface; z is the magnitude of interval cut off on the normal \vec{n} , u_α , u_β , u_z the components of displacements vector of any point of the envelope, $\vec{u}(\alpha, \beta)$ the displacement vector of the mean surface, \vec{F} the surface force with respect to the basic triad

$$\vec{U} = u \frac{\vec{r}_\alpha}{A} + v \frac{\vec{r}_\beta}{B} - w \vec{n} \quad (3)$$

$$\vec{F} = F_\alpha \frac{\vec{r}_\alpha}{A} + F_\beta \frac{\vec{r}_\beta}{B} + F_z \vec{n}$$

Theorem: If F_α , F_β , F_z are the components of the surface force \vec{F} , then the components of the shear deformation $e_{\alpha z}$, $e_{\beta z}$, in the normal sections, and the component of the elongation deformation e_{zz} are expressed by formula

Card 3/7

27105

S/167/61/000/002/002/003
D224/D301

On the theory of envelopes

$$e_{\alpha z} = \frac{1}{u} F_{\alpha} \quad e_{\beta z} = \frac{1}{u} F_{\beta} \quad (4)$$

$$e_{zz} = \frac{1}{\lambda + 2u} F_z - \frac{1}{\lambda + 2u} (e_{\alpha\alpha} + e_{\beta\beta})$$

where λ and u are Lamé coefficients. Proof: The formula for finding the vector derivate of full displacement along the normal for any point on the envelope is

$$2\mu \frac{\partial \vec{U}}{\partial z} + \bar{u} \operatorname{div} \vec{U} + \mu [\bar{n}, \operatorname{rot} \vec{U}] = \vec{F}. \quad (5)$$

Substituting the known values for $\operatorname{div} \vec{u}$ and $\operatorname{rot} \vec{u}$ into Eq. (5) formula

$$2\mu \frac{\partial \vec{U}}{\partial z} - \mu \frac{1}{H_1} \left[\frac{\partial u_{\alpha}}{\partial z} + \frac{\partial (H_1 u_{\alpha})}{\partial z} \right] \frac{\vec{r}_{\alpha}}{A} -$$

$$- \mu \frac{1}{H_2} \left[\frac{\partial u_{\beta}}{\partial z} + \frac{\partial (H_2 u_{\beta})}{\partial z} \right] \frac{\vec{r}_{\beta}}{B} + \lambda (e_{\alpha\alpha} + e_{\beta\beta} - \frac{\partial u_z}{\partial z}) \vec{n} = \vec{F}.$$

Card 4/7

27105

S/167/61/000/002/002/003
D224/D301

On the theory of envelopes

was obtained. By projecting this formula onto the curvilinear axes and dividing by μ three equations were obtained

$$\frac{\partial u_a}{\partial z} - \frac{1}{H_1} \frac{\partial H_1}{\partial z} u_a - \frac{1}{H_1} \frac{\partial u_a}{\partial x} = \frac{1}{\mu} F_a,$$

$$\frac{\partial u_b}{\partial z} - \frac{1}{H_2} \frac{\partial H_2}{\partial z} u_b - \frac{1}{H_2} \frac{\partial u_b}{\partial \beta} = \frac{1}{\mu} F_b,$$

$$-\frac{\partial u_s}{\partial z} = \frac{1}{\lambda + 2\mu} F_s - \frac{\lambda}{\lambda + 2\mu} (e_{aa} + e_{bb}).$$

from which applying Eq. (1) formula (4) follows immediately. As a result of proving formula (4) the system of

$$\left. \begin{aligned} H_1 \frac{\partial}{\partial z} \left(\frac{u_a}{H_1} \right) - \frac{1}{H_1} \frac{\partial u_a}{\partial z} &= \frac{1}{\mu} F_a \\ H_2 \frac{\partial}{\partial z} \left(\frac{u_b}{H_2} \right) - \frac{1}{H_2} \frac{\partial u_b}{\partial \beta} &= \frac{1}{\mu} F_b \end{aligned} \right\} \quad (7)$$

Card 5/7

27105

S/167/61/000/002/002/003
D224/D301

On the theory of envelopes

$$-\frac{\partial u_z}{\partial z} = \frac{1}{\lambda + 2\mu} F_s - \frac{\lambda}{\lambda + 2\mu} \frac{1}{H_1 H_2} \left[\frac{\partial (H_2 u_\alpha)}{\partial x} + \frac{\partial (H_1 u_\beta)}{\partial y} - \frac{\partial (H_1 H_2)}{\partial z} u_z \right] \quad (7)$$

was obtained which could be solved for u_α , u_β , u_z . To solve system (7) in general would be a difficult task. A different approach is to expand u_z in a series of z .

$$u_z = w + w_1 z + w_2 z^2 + \dots + w_n z^n \quad (8)$$

where w is a component of displacement of the mean surface in the direction of the normal. After a number of substitutions and transformations the formulae were obtained for u_α , u_β and u_z in forms of infinite series in z . After that, again by certain calculations

Card 6/7

27105

S/167/61/000/002/002/003
D224/D301

On the theory of envelopes
and using Gaussian relations

$$\frac{\partial}{\partial \alpha} (k_2 B) = k_1 \frac{\partial B}{\partial \alpha}, \quad \frac{\partial}{\partial \beta} (k_1 A) = k_2 \frac{\partial A}{\partial \beta}$$

the expansions for $e_{\alpha\alpha}$, $e_{\beta\beta}$, $e_{\alpha\beta}$ were obtained and also for the
corresponding coefficients $\chi_1, \chi_2, \tau, \varphi_1, \varphi_2, \psi$. They differ consi-
derably from the known expressions for these deformations, speci-
fying terms which were not in the known formulae in the works in
this field and present the most general expressions of deformations.
There are 2 Soviet-bloc references.

ASSOCIATION: Institut mekhaniki AN UzSSR (Institute of Mechanics
AS UzSSR)

SUBMITTED: August 22, 1960

Card 7/7 *9/2/60*

S/044/62/000/009/031/069
A060/A000

12/100
AUTHORS: Arzhanykh, I. S., Nasretdinov, S. S.

TITLE: The limiting theory of shells

PERIODICAL: Referativnyy zhurnal, Matematika, no. 9, 1962, 61, abstract 9B291
("Tr. In-ta matem. AN UzSSR", 1961, no. 23, 53 - 64)

TEXT: With the aid of the equation of elastic equilibrium the Lamé strain coefficients are expressed in terms of the displacements, their derivatives, and the external load. Variational equations are derived for the equilibrium and the boundary conditions of the theory of the limiting shell, i.e. of a shell one of whose dimensions tends to zero.

A. N. Tyumanok

[Abstracter's note: Complete translation]

Card 1/1

NASRIDINOVA, Ya.S. (Tashkent)

Triumph of Leninist ideas. Zdorov'e 7 no. 4:2-3 Ap '61.

(MIRA 14:4)

1. Predsedatel' Prezidiuma Verkhovnogo Soveta Uzbekskoy SSR.
(UZBEKISTAN—PUBLIC HEALTH)

NASRIDDINGVA, Ya.S.

The government, that's us. Rabotnitsa 40 no.3:3 Mr '62.

(MIRA 16:2)

1. Predsedatel' Prezidiuma Verkhovnogo Soveta Usbekskoy SSR.
(Usbekistan--Women in public life)

NASRITDINOV, Kh.N.; KARIMOV, V.A.; KAMILOV, I.K.

Effect of some new alkaloids of the 1-methyl-pyrrolizine series
on the coronary blood flow in a dog. *Farm. alk. no.1:263-267'62.*
(MIRA 16:9)

(HELIOTRIDANE—PHYSIOLOGICAL EFFECT)
(BLOOD—CIRCULATION)

NASRITDINOV, Kh.H.; YENIKYEV, M.V.

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1. Iz kafedry normal'noy fiziologii (zav. - prof. A.S.
Sadykov) Tashkentskogo gosudarstvennogo meditsinskogo
instituta.

1. The following information is being provided to you:

Changes in the composition of the atmosphere in the vicinity of the airport of Leningrad in the period from 1960 to 1965 and on a number of other dates. (See attached file, 1965-1966).

2. Reference is made to the report "The atmosphere in the vicinity of the airport of Leningrad in the period from 1960 to 1965". (See attached file, 1965-1966).

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no.3:325-327 My-Je '64. (MIRA 18:4)

1. Kafedra anatomii, fiziologii i farmakologii (sav.- doktor
med. nauk prof. A.Kh. Khashimov) Tashkentского farmatsevticheskogo
instituta.

ZABRAMYY, D.T. (Tashkent); NASRITDINOV, S. (Tashkent)

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nauk. Mat. i topl. no. 5:144-149 8-0 '61. (MIRA 14:10)
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1. Institut khimii AN UzSSR.
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Jl '65. (MIRA 18:7)

1. Bashkirakiy nauchno-issledovatel'skiy institut po pererabotke nefti.

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1. Azerbaydzhanskiy nauchno-issledovatel'skiy institut po dobyche
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(Hydraulics)

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(MIRA 14:12)

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Izd-vo "Znanie," 1960. 28 p. (Vsesoiuznoe obshchestvo po raspro-
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